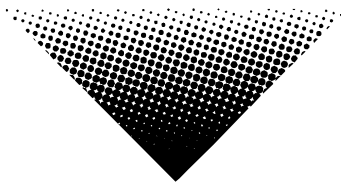


LG-40 Scorpion Array™

Snapshot

Ok on Dimmer	⊘
Outdoor OK	⊘
Sound Activated	✓
DMX/Master/Slave	✓
115V/230V Switch	✓
Replaceable Fuse	✓
User Serviceable	⊘
Duty Cycle	⊘

USER MANUAL



CHAUVET, 3000 N 29th Ct, Hollywood, FL 33020 U.S.A
(800) 762-1084 – (954) 929-1115
FAX (954) 929-5560
www.chauvetlighting.com

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BEFORE YOU BEGIN

What is included

- 1 x Laser Array™
- Power Cord
- Warranty Card
- User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement.

Figure 1 - AC Voltage Switch

Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning!

Verify that the voltage select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.



Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

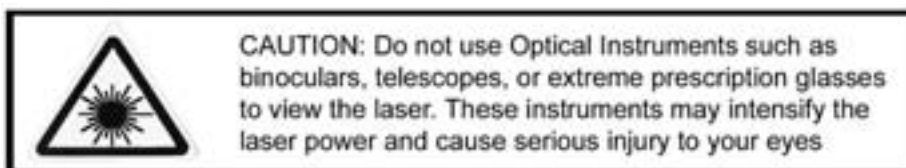
AC Power Connection:

The unit is supplied with a power plug appropriate to its voltage and destination. Should any other connections be required they must be carried out with the following configuration.

Earth = Green/Yellow cable

Neutral = Blue cable

Live = Brown cable



Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm (20in) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature (Ta) is 35°C (95°F). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the lamp while it is on.
- Do not daisy chain power to more than eight units.

Caution!

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET.

INTRODUCTION

Your LG-40 is very unique! You may notice that the beams coming out of the projector are larger than the 4.95mW projectors. There is a very distinct reason for this. Unlike 4.95mW projectors, the output of the CHAUVET laser projectors with Fatbeam™ technology outputs <20mW for each beam. Normally outputs greater than 4.95mW require a variance from the FDA. This product has been designed to meet a special classification of ClassIIIR. Under this classification with the Fatbeam™ technology the acceptable energy levels (AEL) have been met. Therefore the maximum potential exposure to the unaided eye is less than 4.95mW for a static beam. Additionally the (MPE) or Maximum Permissible Exposure with this product is below acceptable levels for human ocular or tissue exposure.

Features

CONTROL FEATURES

- 2-channel DMX-512 controlled green laser
- Operating modes: auto, sound active, master/slave
- Scan and speed adjustment
- Laser on/off

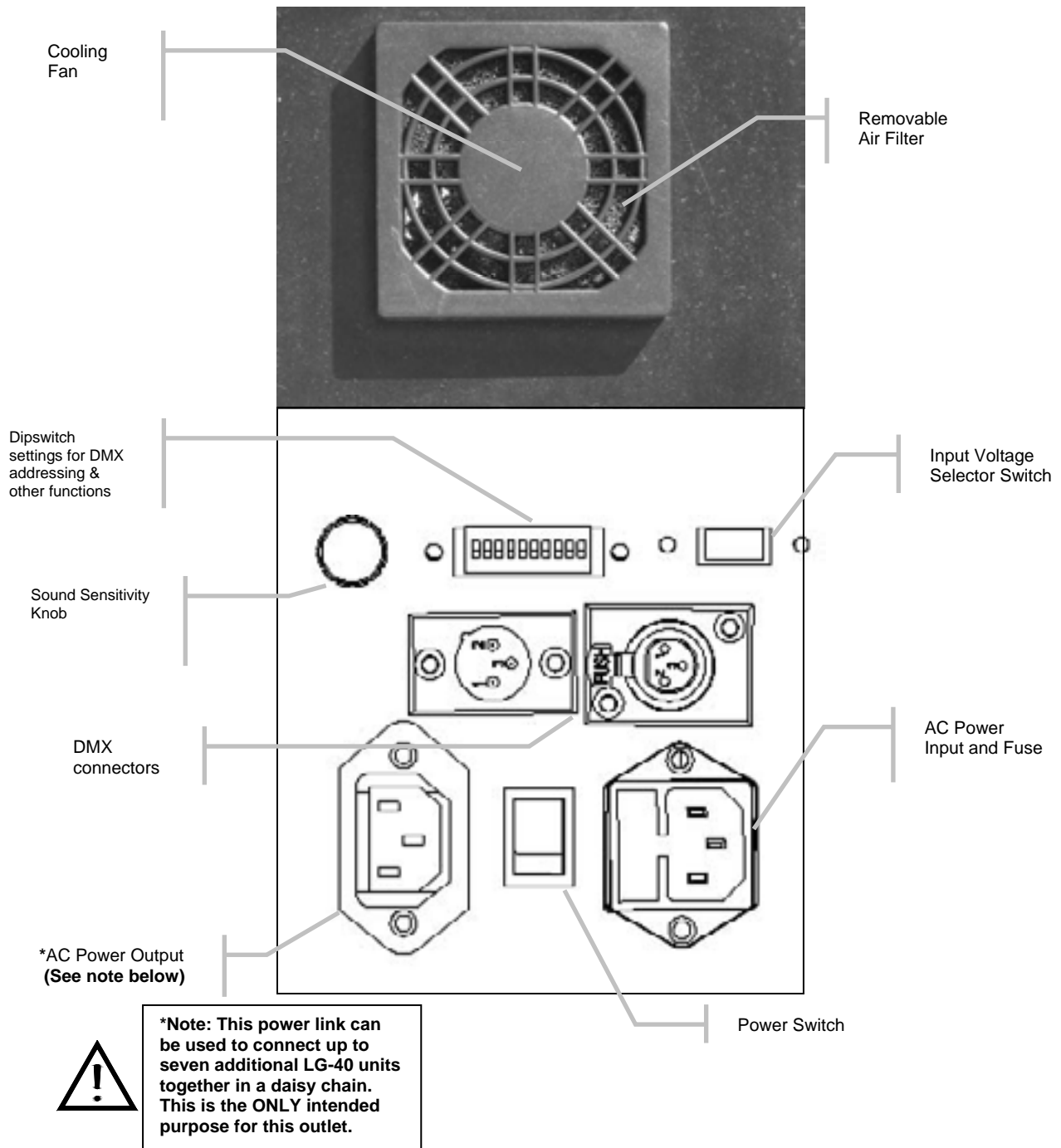
ADDITIONAL FEATURES

- 10mW **Fat Beam™** laser produces 10-14mm beams that comply with IEC safety standards under ClassIIIR
- **No variance required**
- Multiple array configurations with optional mounting brackets (LAB-40V, LAB-40CT)
- Additional power output for daisy chaining units
- Built-in automated programs via master/slave or DMX
- Built-in sound activated programs via master/slave or DMX
- Sound sensitivity control
- Micro-stepping motors
- Rugged construction
- Fan cooled (with removable air filter)

DMX Channel Summary

CHANNEL	FUNCTION
1	Rotation
2	Speed

Product Overview



**Array configurations using
optional hardware.**



LAB-40CT



LAB-40V

General Instructions

Please read the contents of this manual carefully and thoroughly before operating the Laser system. These instructions contain important safety information regarding the use and maintenance of this system. Please keep this manual for future reference.

- Every unit has been thoroughly tested and has been shipped in perfect operating condition.
- Check the shipping carton for damage that may have occurred during shipping.
- If the carton appears to be damaged carefully inspect your unit for any damage.
- Be sure all equipment necessary to operate the system has arrived intact.
- In the event that damage has been found or parts are missing, please contact CHAUVET customer support for further instructions.
- Please do not return the unit to your dealer without first contacting CHAUVET customer support.

Notice!

- 1) Please insure the power supply has good connect with ground before operating the unit in order to prevent electrical shock.
- 2) This system is intended to only be operated indoors. Avoid any direct contact with water, and make certain the unit is firmly mounted.
- 3) Ensure the operating temperature is within the specified normal range of 18~30⁰ C.
- 4) Prolonged operation shortens the life of the laser device.
- 5) Over a long period of time the system may build up dust and other contaminants on the scanner optics and/or the aperture window.
- 6) Do not remove any of the laser safety warning labels, manufacturing label, and warranty labels. If the warranty labels are broken the warranty will be voided.
- 7) Please contact us if you experience any problems with this unit.
- 8) **NO USER SERVICABLE PARTS INSIDE:**
Warranty Void if Warranty Seals are missing or appear tampered with.
- 9) Please do not discard the shipping materials. In the event you must return the unit please do so in the original factory packaging to avoid further damage.



COMPLIANCE STATEMENT

Your LG-40 complies with FDA/CDRH 21CFR1040 and Laser Notice 50 as well as IEC 60825-1:2003. Due to a unique optic design, this product does not exceed output powers that exceed its classification and output levels government agencies have determined to be appropriate for the products function.

Laser Safety and Compliance Information

This product is manufactured to comply with the IEC 60825-1 and in accordance with U.S. Food and Drug Administrations (FDA) Standards listed under FDA Document 21 CFR 1040 and subsequent laser notices.

Product Classification and Manufacturing Label Identification

Laser Classification	Class IIIR
Laser Medium	DPSS YVO4 532nm
Cooling	Fan Cooled
Output	<20mW
Beam Diameter at aperture	10 – 14mm
Beam Divergence	Optically adjusted for compliance
Radiant Exposure at Aperture	<4.95mW (7mm Human Limiting Aperture)

There is only one laser aperture on this product.



CAUTION: AVOID EXPOSURE TO BEAM: Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.

Non-Interlocked Housing Warning Labels. This unit contains an embedded laser device that exceeds the output of the intended class internally. Exposure to unsafe levels of laser radiation when opened.



Additionally there are no user serviceable parts inside. Tampering or removing warranty seals will void your products limited warranty.

CAUTION:

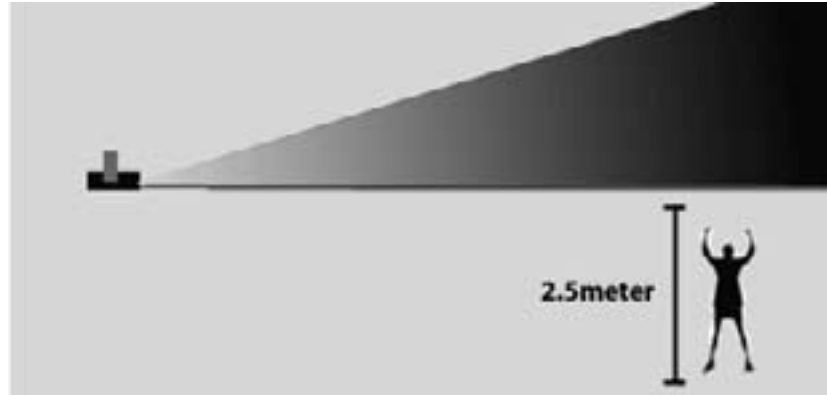
The use of corrective eye wear or optics for viewing at distances such as telescopes or binoculars within a distance of 100mm may pose an eye hazard.

Proper Usage

This unit has been designed to be hung. It is recommended that, for safety purposes, your lighting effect are properly mounted using a suitable hanging clamp and safety cable.

CHAUVET offers a range of items, which are ideal for safe mounting.

It is the responsibility of the manufacturer to provide useful instruction on the proper use of this product. According to FDA Regulations you should operate the product in the fashion illustrated below.



CAUTION: Use of controls, adjustments, or performance of procedures other than what is specified herein may result in hazardous radiation exposure

CONTROL & FUNCTION

This unit uses dipswitches to assign a units function, DMX address and DMX MODE of function. Each dipswitch represents a binary value.

Dipswitch Chart

0=OFF 1=ON X=OFF or ON

DIPSWITCH CHART										FUNCTION
1	2	3	4	5	6	7	8	9	10	
0	X	X	X	X	X	X	X	X	1	SOUND ACTIVE, MASTER SOUND
1	X	X	X	X	X	X	X	X	1	MASTER AUTO
1	X	X	X	X	X	X	X	X	1	AUTO MODE
SET DMX ADDRESS										0
X	X	X	X	X	X	X	X	X	0	DMX MODE, SLAVE MODE

Function chart

Dipswitch #10 is used to set the system function.

Dipswitches #1 to #9 are used to set the DMX512 address in DMX MODE.

DMX Mode

In this mode you will be able to control each individual trait of the fixture independently. The LG-40 occupies 2 channels of DMX control. For detailed listing of the DMX channel values and laser patterns refer to the Appendix section.

SETTING THE STARTING ADDRESS

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a "start address" from 1 to 511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 6 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, and 105. Choose start addresses so that the channels used do not overlap and notate the start address selected for future reference.

If this is your first time addressing a fixture using the DMX-512 control protocol than I suggest jumping to the Appendix Section and read the heading "DMX Primer". It contains very useful information that will help you understand its use.

Set the start address using the group of DIP switches located usually on bottom of the fixture. Each dip switch has an associated value. Adding the value of each switch in the ON position will provide the start address. Determining which switches to toggle ON given a specific start address can be accomplished in the following manner. By subtracting the largest switch value possible from the selected start address which does not cause a negative number.

EXAMPLE STARTING ADDRESS

Address 10 Pin # 4 = 8 Pin # 2 = 2 Total = 10	<div><div>1 2 4 8 16 32 64 128 256</div><div>DIP</div><div>1 2 3 4 5 6 7 8 9 10 11 12</div><div>↑ ON</div><div>↓ OFF</div></div>
Address 24 Pin # 5 = 16 Pin # 4 = 8 Total = 24	<div><div>1 2 4 8 16 32 64 128 256</div><div>DIP</div><div>1 2 3 4 5 6 7 8 9 10 11 12</div><div>↑ ON</div><div>↓ OFF</div></div>
Resolving address using simple math. Address 233	<div><div>233 – (128) = 105, Turn ON Dip # 8 105 – (64) = 41, Turn ON Dip # 7 41 – (32) = 9, Turn ON Dip # 6 9 – (8) = 1, Turn ON Dip # 4 1 – (1) = 0, Turn ON Dip # 1</div><div><div>DIP SWITCH</div><div>(DMX VALUE)</div><div>1 2 3 4 5 6 7 8 9</div><div>1 2 4 8 16 32 64 128 256</div></div><div><div>You will most likely use the first available number which maybe number 1. This number was selected for example purposes.</div></div></div>

Operation

Stand-Alone Operation (Sound-Active, Auto Mode):

This mode allows a single unit to run to the beat of the music, or the unit will auto change in Auto Mode.

- 1) Set dipswitches position to Sound Active or Auto Mode.

Mode	Dipswitches
Sound Active	1 = Off, 10 = On
Auto Mode	1 = On, 10 = On

- 2) The unit will react to the low frequencies of music via the internal microphone in Sound Active mode, or the unit will auto change in Auto Mode.
- 3) Use the audio sensitivity knob on the back of the unit to make the unit more or less sensitive in Sound-Active mode. Turning the knob counterclockwise decreases the sensitivity; turning the knob clockwise increases the sensitivity.

Master-Slave Operation (Master Sound, Master Auto):

This mode will allow you to link up to 32 units together without a controller.

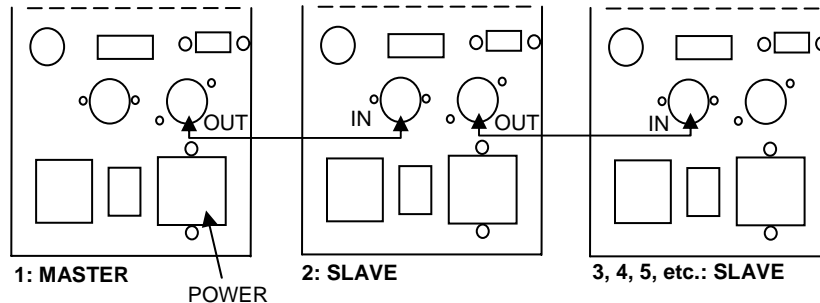
- 1) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture. For more information about terminators, see page 14.

- 2) Choose a unit to function as Master mode. Turn dipswitches to the Master position on the unit. The unit must be the first unit in line. Then simply chain the units together using DMX cable.

Mode	Dipswitches
Master Sound	1 = Off, 10 = On
Master Auto	1 = On, 10 = On

- 3) Turn switch to the Slave position on the slave units, and they will react the same as the Master.

Mode	Dipswitches
Slave	1-10 = Off



Note! System doesn't use a DMX controller in Master-Slave Mode. System cannot have two Master units in Master-Slave Mode. It is recommended that you perform a hard reset after making changes to the dipswitches. To perform a hard reset: turn off the power to the fixture, wait 10 seconds, and turn on the power to the fixture.

Universal DMX Control (DMX Mode):

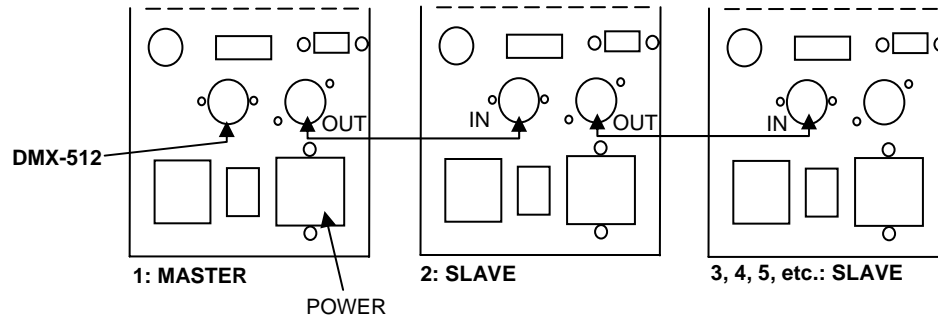
This mode allows you to use a universal DMX-512 controller to control laser operations and effects.

- 1) To control your fixture in DMX Mode use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For long cable runs we suggest using a terminator on the last fixture. For more information about terminators, see page 14.

Mode
DMX mode

Dipswitches
1-9 = DMX address, 10 = Off

- 2) Assign a DMX address to the unit according to the instructions included with your controller. Also included is a DMX Quick Reference Chart on page 15



- 3) Use a DMX controller to control your units.

APPENDIX

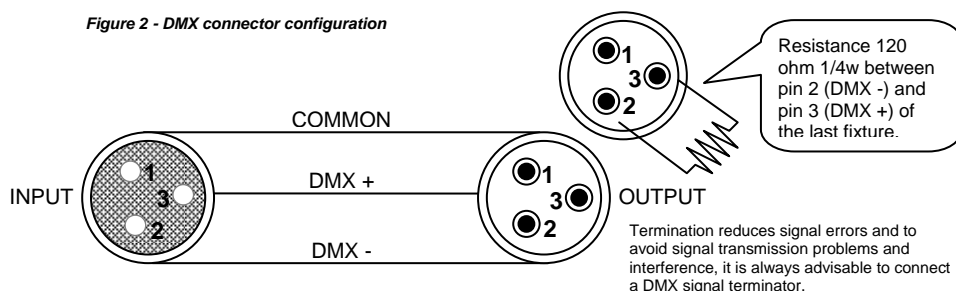
DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')

FIXTURE LINKING

Figure 2 - DMX connector configuration



Note!

If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. CHAUVET Model No: DMX5M. The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

CONDUCTOR	3 Pin Female (output)	5 Pin Male (Input)
GROUND/SHIELD	Pin 1	Pin 1
DATA (-) SIGNAL	Pin 2	Pin 2
DATA (+) SIGNAL	Pin 3	Pin 3
DO NOT USE		Do not use
DO NOT USE		Do not use

DMX Quick Reference Chart

DMX Address Quick Reference Chart																	
Dip Switch Position																	
DMX DIP SWITCH SET 0=OFF 1=ON X=OFF or ON					#9	0	0	0	0	0	0	0	0	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0
					#7	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5													
0	0	0	0	0		32	64	96	128	160	192	224	256	288	320	352	384
1	0	0	0	0	1	33	65	97	129	161	193	225	257	289	321	353	385
0	1	0	0	0	2	34	66	98	130	162	194	226	258	290	322	354	386
1	1	0	0	0	3	35	67	99	131	163	195	227	259	291	323	355	387
0	0	1	0	0	4	36	68	100	132	164	196	228	260	292	324	356	388
1	0	1	0	0	5	37	69	101	133	165	197	229	261	293	325	357	389
0	1	1	0	0	6	38	70	102	134	166	198	230	262	294	326	358	390
1	1	1	0	0	7	39	71	103	135	167	199	231	263	295	327	359	391
0	0	0	1	0	8	40	72	104	136	168	200	232	264	296	328	360	392
1	0	0	1	0	9	41	73	105	137	169	201	233	265	297	329	361	393
0	1	0	1	0	10	42	74	106	138	170	202	234	266	298	330	362	394
1	1	0	1	0	11	43	75	107	139	171	203	235	267	299	331	363	395
0	0	1	1	0	12	44	76	108	140	172	204	236	268	300	332	364	396
1	0	1	1	0	13	45	77	109	141	173	205	237	269	301	333	365	397
0	1	1	1	0	14	46	78	110	142	174	206	238	270	302	334	366	398
1	1	1	1	0	15	47	79	111	143	175	207	239	271	303	335	367	399
0	0	0	0	1	16	48	80	112	144	176	208	240	272	304	336	368	400
1	0	0	0	1	17	49	81	113	145	177	209	241	273	305	337	369	401
0	1	0	0	1	18	50	82	114	146	178	210	242	274	306	338	370	402
1	1	0	0	1	19	51	83	115	147	179	211	243	275	307	339	371	403
0	0	1	0	1	20	52	84	116	148	180	212	244	276	308	340	372	404
1	0	1	0	1	21	53	85	117	149	181	213	245	277	309	341	373	405
0	1	1	0	1	22	54	86	118	150	182	214	246	278	310	342	374	406
1	1	1	0	1	23	55	87	119	151	183	215	247	279	311	343	375	407
0	0	0	1	1	24	56	88	120	152	184	216	248	280	312	344	376	408
1	0	0	1	1	25	57	89	121	153	185	217	249	281	313	345	377	409
0	1	0	1	1	26	58	90	122	154	186	218	250	282	314	346	378	410
1	1	0	1	1	27	59	91	123	155	187	219	251	283	315	347	379	411
0	0	1	1	1	28	60	92	124	156	188	220	252	284	316	348	380	412
1	0	1	1	1	29	61	93	125	157	189	221	253	285	317	349	381	413
0	1	1	1	1	30	62	94	126	158	190	222	254	286	318	350	382	414
1	1	1	1	1	31	63	95	127	159	191	223	255	287	319	351	383	415

Dip Switch Position

DMX Address

DMX Channel Values

Channel	Value	Function
1	000 ⇔ 031	Mode Laser off
	032 ⇔ 087	Clockwise rotating
	088 ⇔ 143	Counter-clockwise rotating
	144 ⇔ 199	Oscillating back and forth
	200 ⇔ 255	Sound-active mode
2	000 ⇔ 255	Speed Control Slow to fast

CAUTION: Use of controls, adjustments, or performance of procedures other than what is specified herein may result in hazardous radiation exposure

Troubleshooting

- 1) If the power supply indicator does not light up and the laser does not work, please check if the power supply and the corresponding parts have the right input electric current.
- 2) If it is in stand-alone mode operation, the power supply indicator is lit and the laser is not working, please check if the operation system is set up in Master/Slave mode.
- 3) If it is in Master/Slave mode, Slave mode is not working, please check as below:
 - A. Make sure to set up Master mode for just one unit and all the others are set in slave mode.
 - B. Make sure to control the unit with a DMX controller.
 - C. Make sure to use a good quality power cord and connection.
- 4) If the unit is in DMX mode, the laser cannot be controlled by the DMX controller, and the DMX signal Indicator is not illuminated, please check the following:
 - A. Make sure to set up the DMX mode.
 - B. Make sure the DMX cable has a good connection.
- 5) If it is in DMX mode and the laser cannot be controlled by the DMX controller, but the DMX signal indicator flashes, please make sure the DMX controller and the laser have the same DMX Address.
- 6) If no laser outputs from the projector please restart the AC power by turning off the AC switch and leaving off for 15 seconds and then turning the switch back to the on position.

If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at (954) 929-1115.

General Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

Technical Specifications

WEIGHT & DIMENSIONS

Length.....	152 mm (6 in)
Width	279 mm (11 in)
Height	355 mm (14 in)
Weight	3.18 Kg (7 lbs)

POWER

Switch-selectable power settings	120V 60Hz AC or 230V 50Hz
Fuse.....	2A 250V
Power Consumption	30W Max
Inrush Power	15W
Power Output (AC Plug)	240W Max per array

LASER

Diode	1 x 10mW green laser
Wavelength.....	532 nm
Part No	10mW Green
Laser Type.....	DPSS
Laser Output.....	<20mW
Cooling	Fan Cooled

CONTROL & PROGRAMMING

Data input	locking 3-pin XLR male socket
Data output.....	locking 3-pin XLR female socket
Data pin configuration	pin 1 shield, pin 2 (-), pin 3 (+)
Protocols.....	DMX-512 USITT
DMX Channels	2

ORDERING INFORMATION

Scorpion Array.....	LG-40
Centerpiece Hardware Mounting Kit for Laser Array (Holds 8 pieces)	LAB-40CT
Vertical Hardware mounting kit for laser array	LAB-40V

Technical Support

Address: Service Dept.
3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)
Support (Email): tech@chauvetlighting.com
Telephone: (954) 929-1115 - (Press 4)
Fax: (954) 929-5560 - (Attention: Service)
Website: <http://www.chauvetlighting.com>